Express Mail

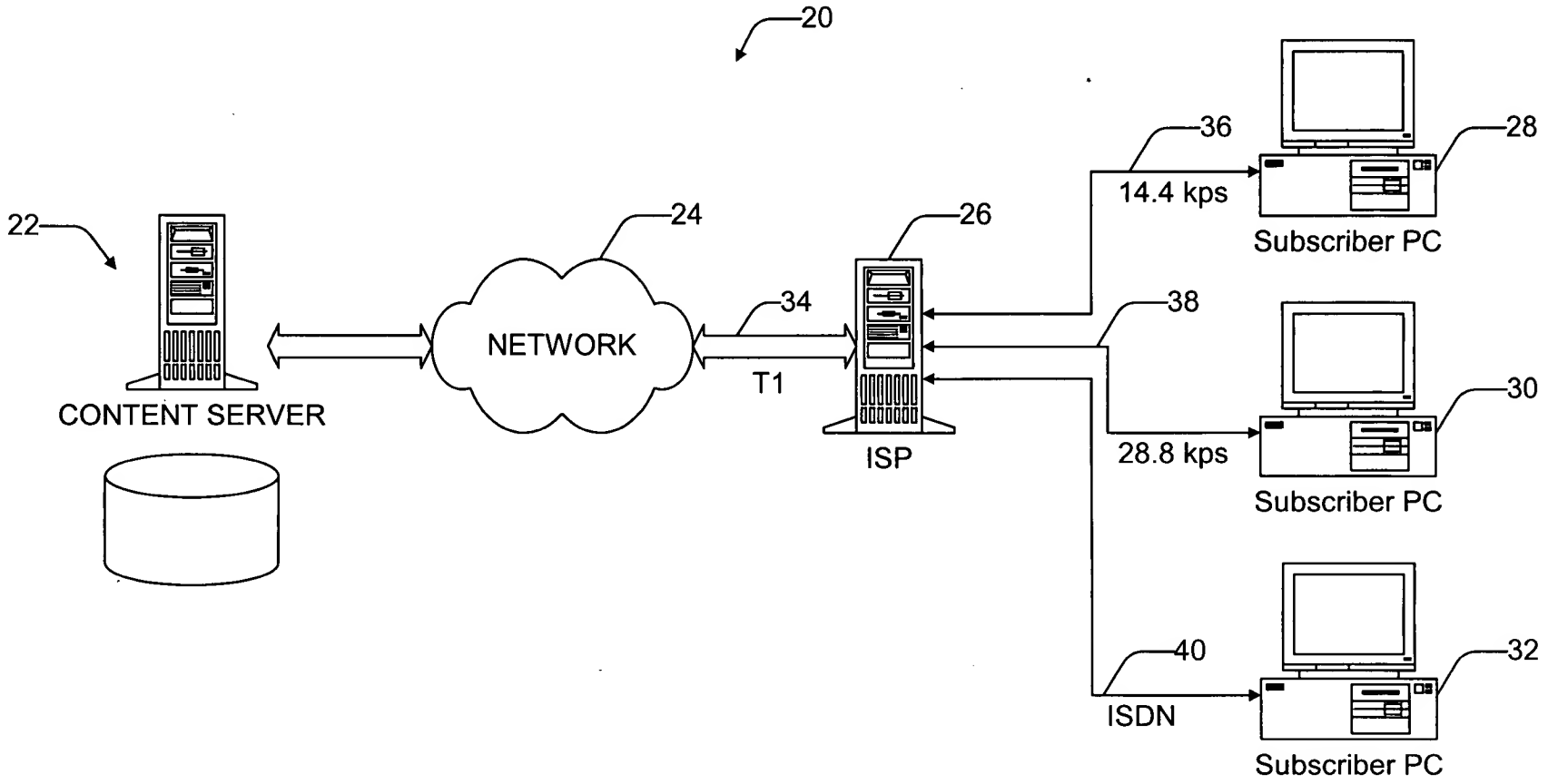

Fig. 1
Prior Art

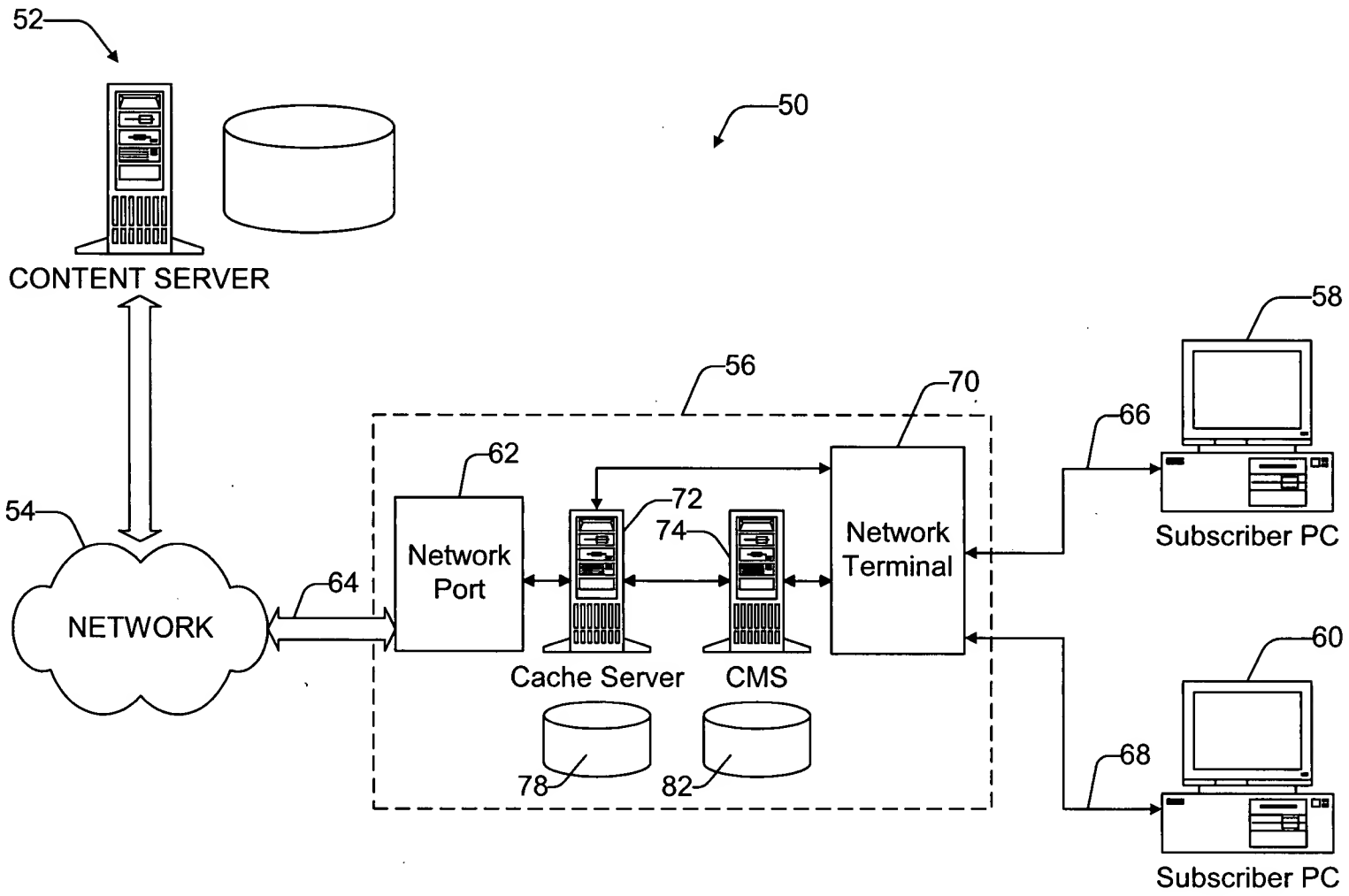
52
50
CONTENT SERVER
58
56
70
66
62
72
74
54
Network Port
Network Terminal
Subscriber PC
NETWORK
64
Cache Server
CMS
60
68
78
82
Subscriber PC

Fig. 2

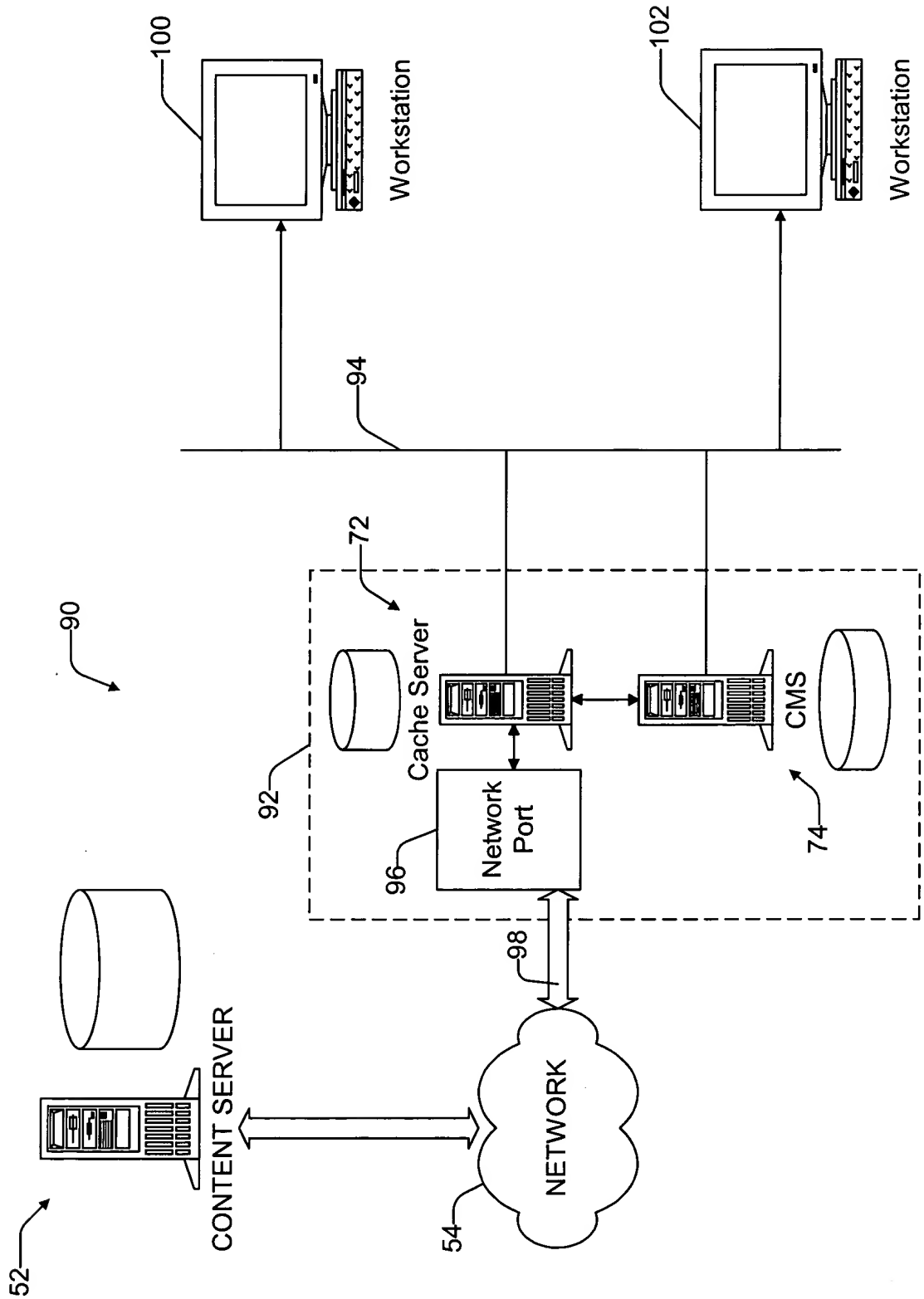
100
Workstation
102
Workstation
94
72
Cache Server
CMS
90
92
Network Port
96
74
98
CONTENT SERVER
NETWORK
54
52

Fig. 3

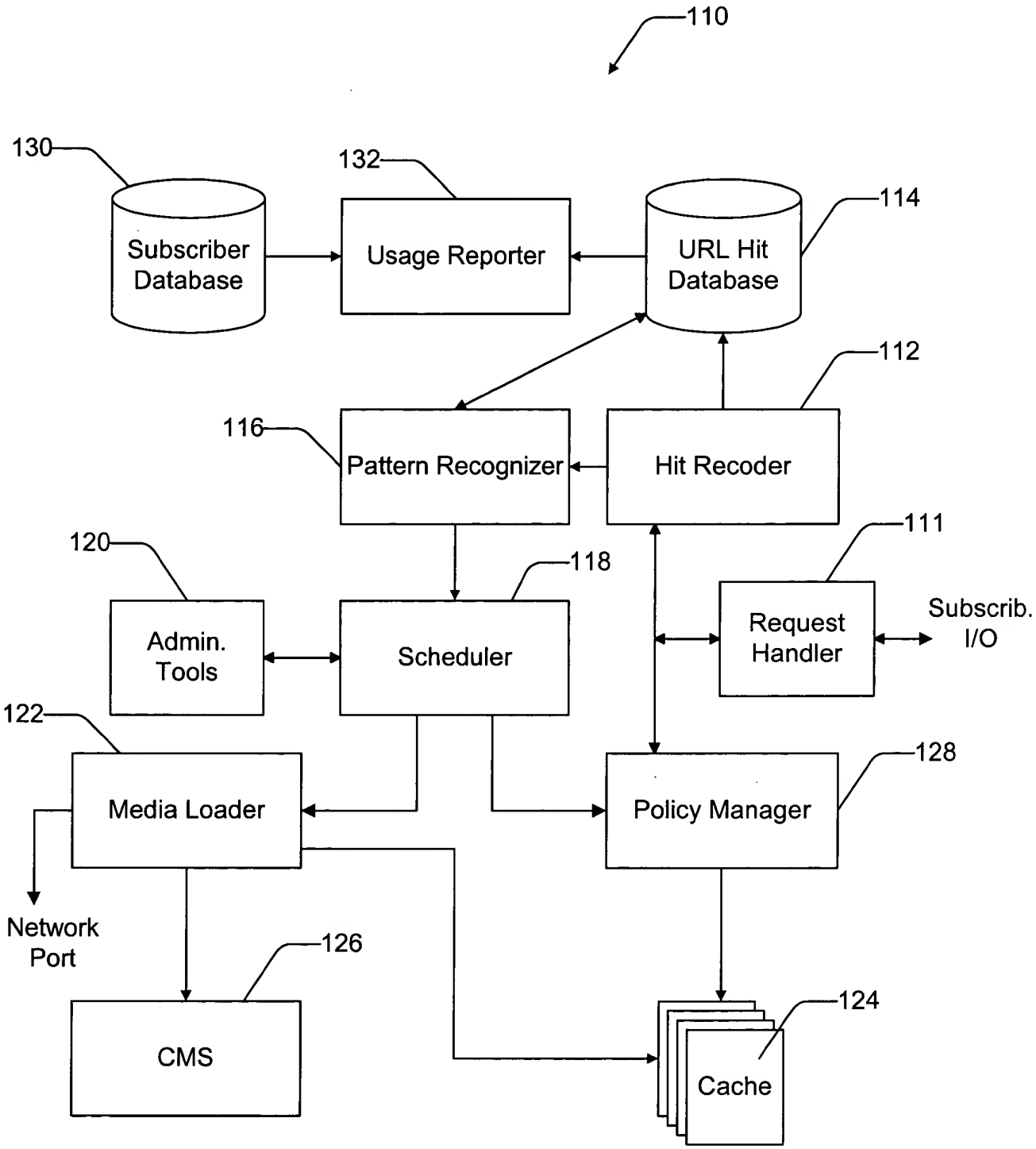
110
130
Subscriber Database
132
Usage Reporter
114
URL Hit Database
112
116
Pattern Recognizer
Hit Recoder
120
118
111
Admin. Tools
Scheduler
Request Handler
Subscrib. I/O
122
Media Loader
128
Policy Manager
Network Port
126
CMS
124
Cache

Fig. 4

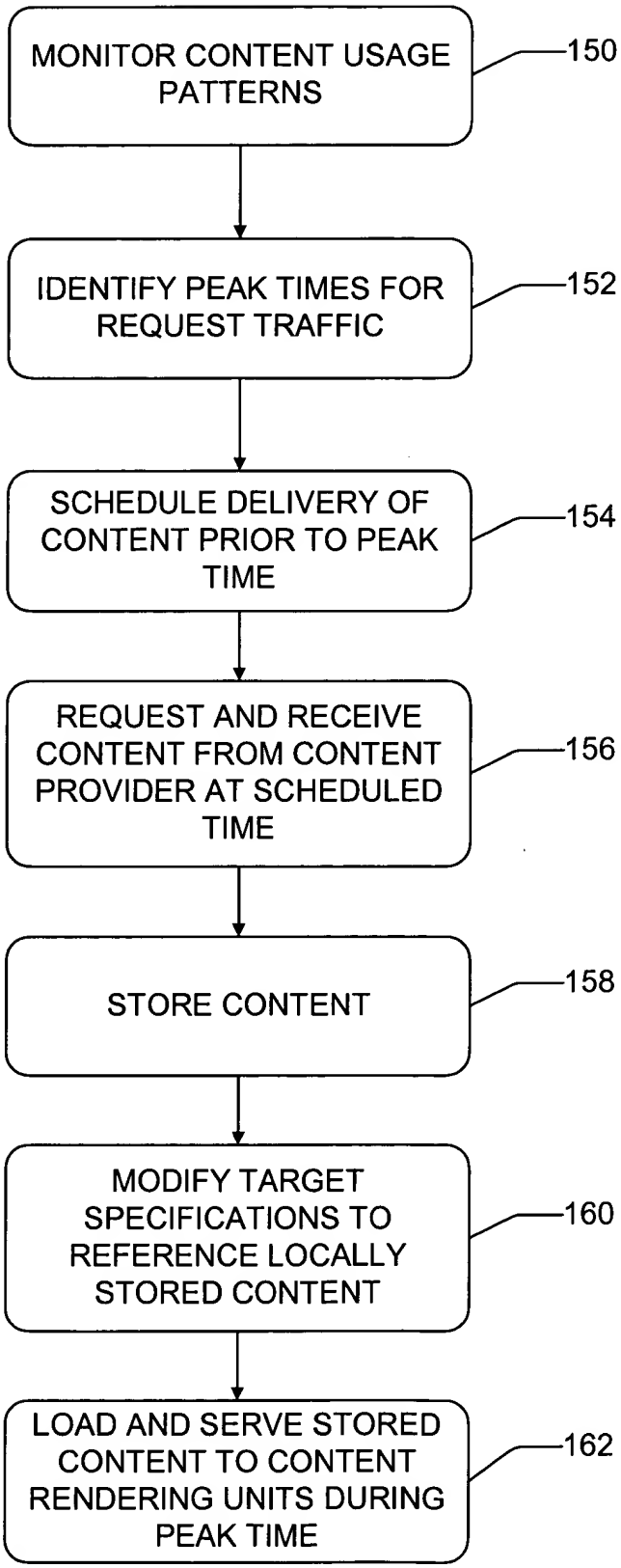
MONITOR CONTENT USAGE PATTERNS
150
IDENTIFY PEAK TIMES FOR REQUEST TRAFFIC
152
SCHEDULE DELIVERY OF CONTENT PRIOR TO PEAK TIME
154
REQUEST AND RECEIVE CONTENT FROM CONTENT PROVIDER AT SCHEDULED TIME
156
STORE CONTENT
158
MODIFY TARGET SPECIFICATIONS TO REFERENCE LOCALLY STORED CONTENT
160
LOAD AND SERVE STORED CONTENT TO CONTENT RENDERING UNITS DURING PEAK TIME
162

Fig. 5

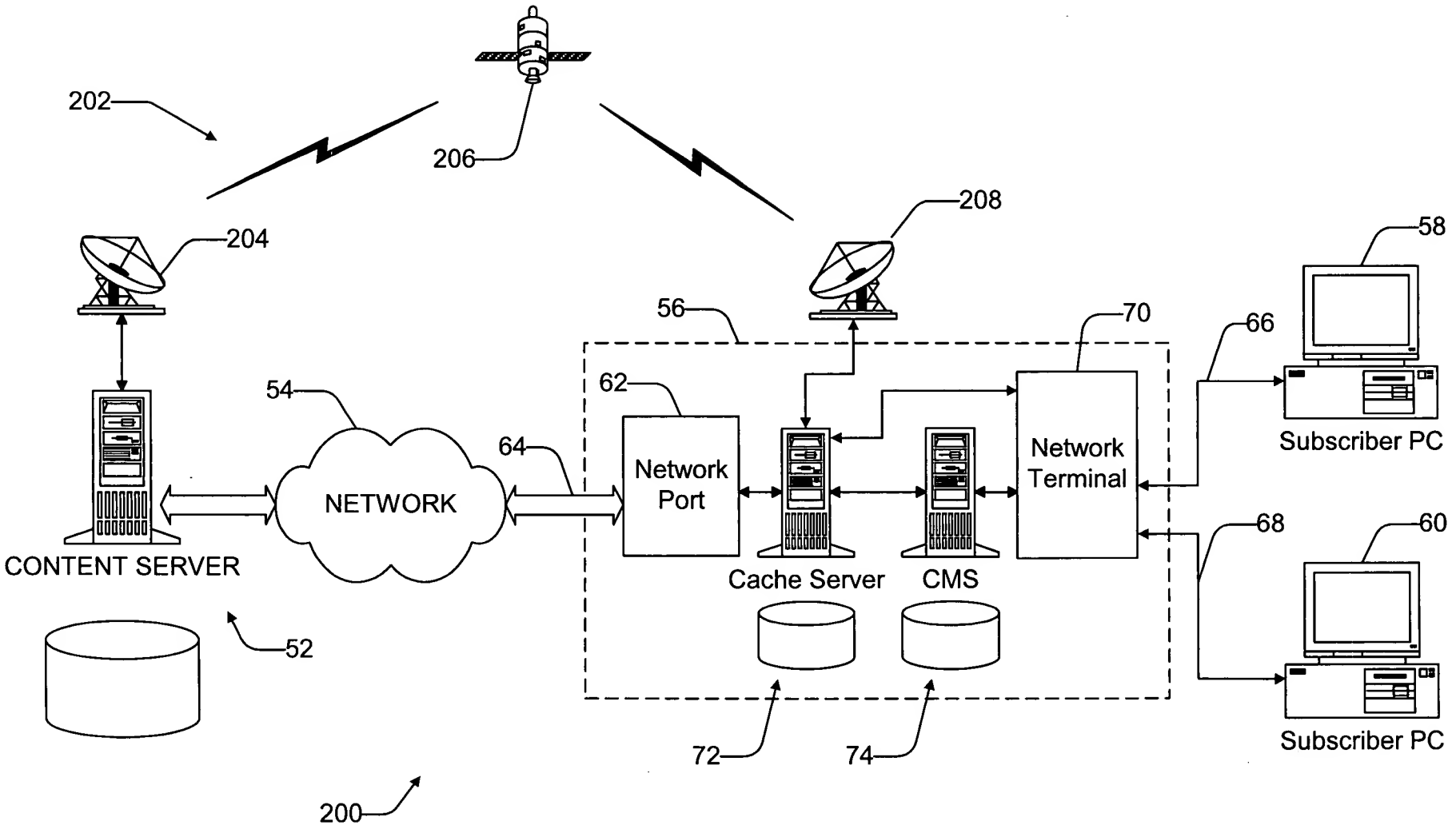
202
206
208
204
58
56
70
66
62
54
64
Network Port
Network Terminal
NETWORK
Subscriber PC
CONTENT SERVER
Cache Server
CMS
68
60
52
Subscriber PC
72
74
200

Fig. 6